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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/914,055	01/16/2002	Gye Young Song	P/923-341	8499

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EXAMINER

RODRIGUEZ, WILLIAM H

ART UNIT	PAPER NUMBER
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3746

DATE MAILED: 03/31/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/914,055

Applicant(s)

SONG, GYE YOUNG

Examiner

William H. Rodriguez

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-5 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1-5 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 1.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Drawings

1. Figures 1-5 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

2. This application does not contain an abstract of the disclosure as required by 37 CFR 1.72(b). An abstract on a separate sheet is required.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by **Kainuma et al.** (U.S. 4,427,906).

5. With respect to claim 1, **Kainuma et al.** teach a piston supporting structure for a linear compressor comprising, a piston 9 reciprocating in the axial direction in receipt of a driving force of a motor 2, 3, 5 a first spring 7 of which one end is fixed to one side of the piston 9 and a

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second spring 6 of which one end is fixed to the other side of the piston 9. See particularly **Figure 6** (attached to office action).

6. With respect to claim 2, **Kainuma et al.** teach spring fixing supporting members X, Y, Z, W each are connected to both sides of the piston 9 and end portions of the first spring 7 and second spring 6 each are fixed to the spring fixing supporting members X, Y, Z, W. See particularly **Figure 6** (attachment A to office action).

7. With respect to claim 3, **Kainuma et al.** teach that the other end portions of the first and second springs 7, 6 are loosely supported by the spring fixing supporting members X, Y, Z, W connected at a predetermined distance from both sides of the piston 9. See particularly **Figure 6** (attachment A to office action).

8. With respect to claim 4, **Kainuma et al.** teach that one of the spring fixing supporting members X is connected to the inner side of a compressor cover C. See particularly **Figure 6** (attachment A to office action).

9. With respect to claim 5, **Kainuma et al.** teach that one of the spring fixing supporting members W is connected to the outer side of an inner lamination IL. See particularly **Figure 6** (attachment A to office action).

10. Claims 1-4 are rejected under 35 U.S.C. 102(e) as being anticipated by **Park et al.** (U.S. 5,993,178).

11. With respect to claim 1, **Park et al.** teach a piston supporting structure for a linear compressor comprising, a piston 232 reciprocating in the axial direction in receipt of a driving force of a motor, a first spring 270 of which one end is fixed to one side of the piston 232 and a

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second spring 270' of which one end is fixed to the other side of the piston 232. See particularly **Figure 6** (attachment B to office action).

12. With respect to claim 2, **Park et al.** teach spring fixing supporting members X, Y, Z, W each are connected to both sides of the piston 232 and end portions of the first spring 270 and second spring 270' each are fixed to the spring fixing supporting members X, Y, Z, W. See particularly **Figure 6** (attachment B to office action).

13. With respect to claim 3, **Park et al.** teach that the other end portions of the first and second springs 270, 270' are loosely supported by the spring fixing supporting members X, Y, Z, W connected at a predetermined distance from both sides of the piston 232. See particularly **Figure 6** (attachment B to office action).

14. With respect to claim 4, **Park et al.** teach that one of the spring fixing supporting members X is connected to the inner side of a compressor cover 152. See particularly **Figure 6** (attachment B to office action).

Contact information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to William H. Rodriguez whose telephone number is 703-605-1140. The examiner can normally be reached on Monday-Friday 7:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy S. Thorpe can be reached on 703-308-0102. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9302 for regular communications and 703-872-9303 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0861.

W.R

W.R
March 19, 2003


CHARLES G. FREAY
PRIMARY EXAMINER